

MONITORING BY MARINE & COASTAL MANAGEMENT – DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND TOURISM



SAARDC WORKSHOP

CAPE TOWN

12 – 14 MAY 2005

ASHLEY JOHNSON

1. ROUTINE RESOURCE SURVEYS

Jan – Feb : West Coast Hake

March : Pelagic Pre-Recruit

Apr – May : South Coast Hake

May – Jun : Pelagic Recruit

Sept – Oct : South Coast Hake

Oct – Nov : Pelagic Spawner Biomass

2. MONTHLY

St Helena Bay Monitoring
line (SHBML)

Sardine-Anchovy
recruitment process (SARP)

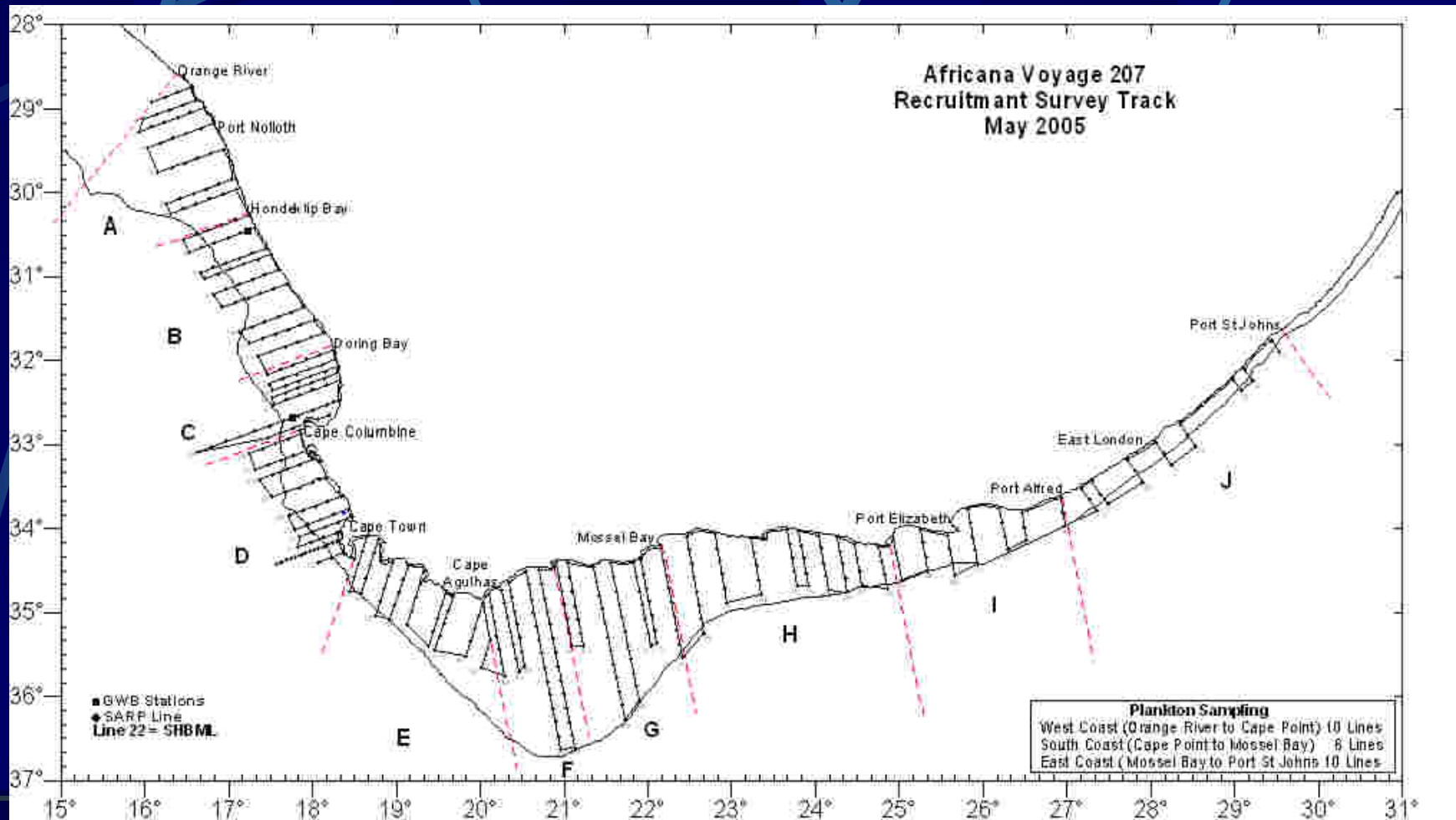




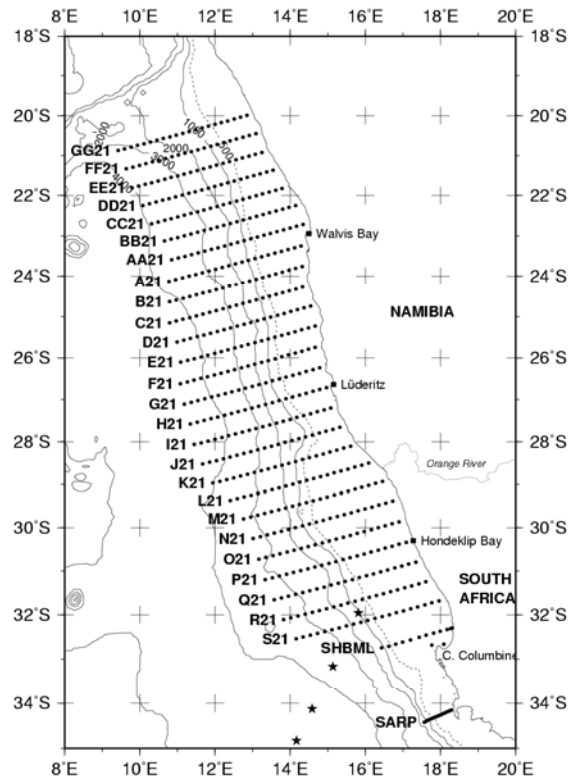
ALL POSSIBILITIES FOR
DEPLOYMENT OF FLOATS IF IT
CAN BE FITTED INTO
SCHEDULE.....



TYPICAL GRID COVERED DURING PELAGIC CRUISE



LUC/ORC Extended Survey Grid



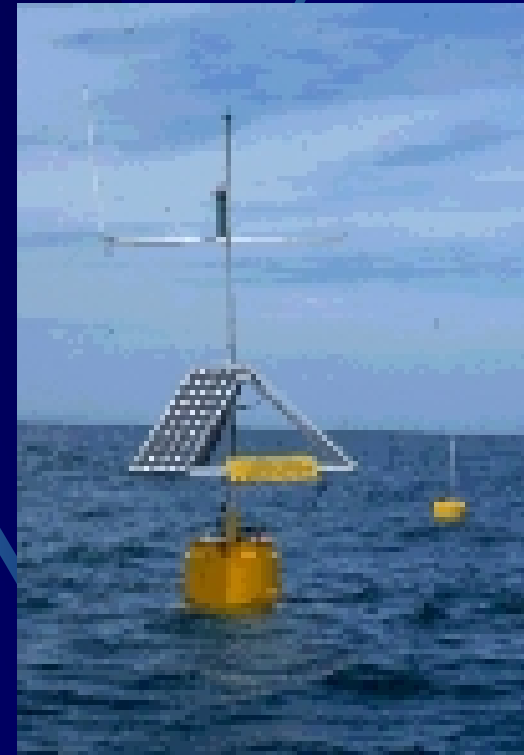
3. MONITORING BUOYS

Currently along west coast

- Elands Bay (~ 30m water)
top – WD, WS, O₂, T, Chl_a
Bot – O₂, Turbidity, T



- Lamberts Bay (~20-30m water)
currents (ADCP), Radiometer, Chl_a, T



4. COASTAL WEATHER STATIONS

Along west coast there are 3 automatic stations (WS, WD, AP, T):

- Port Nolloth
- Doring Bay
- Cape Columbine (Data back to 1980's)

At Lighthouses: Cape Columbine (WS, WD)
Cape Point (WS, WD)
24 hr recording since 1960's

5. UNDERWATER TEMPERATURE

- Port Nolloth
- Hondeklip Bay
- Cape Columbine



6. CURRENT FACILITIES AVAILABLE or BEING DEVELOPED

Calibration – Dedicated person for calibration of instrumentation
large amount of funding to get this going – Salinometer,
temp. bridge, calibration standards, intensive hands-on training in
Germany.

Data Storage – SADC0 at CSIR & should investigate feasibility of using
current facility for processing. Our own in-house data-base but
human capacity is a problem.